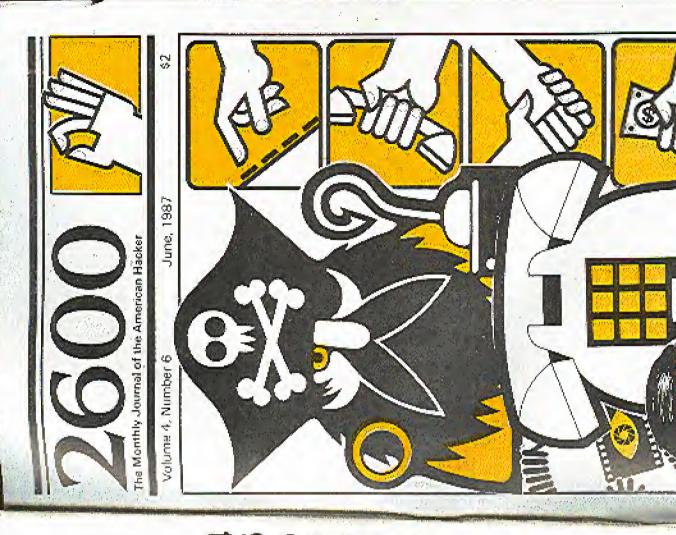
TELECOM INFORMER 2600 MARKETPLACE ALLNET HORRORS FLENET GUIDE PAGER TRICKS ISPS GUIDE LETTERS

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2600 Magazine PO Box 752 Middle Island, NY 11953 U.S.A.

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UPPERHAND

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> month. It certainly won't be our last. hold in New York City earlier this Our first ever public get-together was

why we'll be back on future Friday is samething we don't take lightly. That's our readers and get "real-time" feedback appropriate and a property of the apportunity to talk with some of

Center in New York Fridays of 5, Otherwise look for us in the Citicorp July issue or call the affice after July 1st don't know yet. Look for specifics in the Philadelphia, Just where exactly wewell. On Friday, July 31, we'll be in togethers will happen nearly every week we will be stopping in other places as While our New York City get-

for the trouble. We had quite an from across the country. We shark them interesting group—crossing nearly all Our first meeting literally drew people

females, though. Why is that anyway? age and ethnic groups. Not too many

equipment you have and what you'd like write or cult us and tell us what kind of the world. If you'd like to not a BBS. from the rest of our readers is what's an abundance of software and sysups serving as a network. We seem to have 10 88 open in other parts of the country and around hore—what we need to know boards across the country, possibly in the process of looking for bulletin also talked about. Since the Private holes seems to be on everyone's mind Sector is no longer in existence, we are There is a task force working on that. attracting some curious autookers, we The future of 2600 bulletin boards was to store back issues without loose-legt discussed some important matters, Ifon this will getting a few new writers and

STAFFBOX

Editor and Publisher Eric Corley 110

Office Manager Fram Westbrook

Tish Valier Kech

Cover Ant

anonymous bunch. Lex Luthor, Bill from RNOC, David Ruderman, Bernie S., Mike Saterno: Silent Switchman, Mike Yuhas, and the usual Emmanuel Goldstein, Chester Holmes, The Kid & Company, Writers: John Drake, Paul Estev, Dan Foley, Mr. French,

Production: Mike DeVoursney. Editor Emeritus; TSH Cartoonists: Dan Holder, Mike Marshall.

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ALLNET

CHARACTER THE PROBLEM TONDED Lended up with Allnet as my primary for promotional escativity over at Allact designate Allnet as their primary carrier deceiving-the friend would need to recall, this pyramid scheme was a wee bit April must have surely been a good asomb for Allnet's equal access service. If you credit if they persuaded a friend to sign up Allnet would give customers five bucks A feature in April's 2500 noted that

accounting casier: At random, I chose evenings. Since these calls would be antil I had received my MCI Cards (TM). Alluci. This was to be a stoppap measure reimbursed by my company, I decided to use another long distance carrier to make after I had started a new job. Part of my the phone talking to clients, etc., in the job requirement is to spend some time on This tale begins in February, shortly

often delayed by several months.) interesting to note that this billing cycle is would then bill you in the event you didn't wish to reach. The local Bell company secondary carrier) plus the number you have an account with this carrier. It's also being the identification code of the you would need do is dial fOXXX (XXX carrier, i.e., not your primary carrier, all you want to make calls on a secondary (Remember that with equal access, if

> she mention anything about setting me up with Allnet as my prurary carner. information she asked for. At no time did affiliation. Thus convinced, I gave her the quicker—so I asked her to retite some of the numbers I dialed to prove her request-they wanted to get their funds bill me. It sounded like a reasonable instead of letting my local Bell company address so Alinet would bill me directly of Allnet calls, I got a call from someone that her records indicated I had been using who chimsed she was from Alinet, saying Allnet, and would I give her my name and A few weeks after I had made a bunch

But that is precisely what happened

me over to Alinet, so naturally there was no one in customer service had switched and was put on hold for about 20 minutes bizition points as I read. I wanted Spring The fellow who finally answered said that back!!! Of course, I called their number telt my blood pressure rise about filty "Suggestions for improving our service." I 800-082-4422, for questions, changes and listed a fall free customer service number, customer....." and a load of other diplomatic rubbish from Althet's Director benefits.... You are a highly valued Aline Long Distance Service. You now have the a form letter: "Welcome to Allnet 'Dial-1 A few days later, my posttrain delivered Customer Service, Elaine Delves, In

A Horror Story

absolutely monling he could do to remedy Althet office on 215-567-8080. the situation. He suggested I call my local

and promised-promised that I'd get connected back to Sprint within a couple because he said held look in to the marter must have reptly hit hame with him me five bucks for the change. My plight arrangements due to the principle of the thing, not to mention that they'd charge my local Bell company to make those back to Sprint, and that I would ago call surreptitionsly) connected me to their thought only hackers and the folks in the Philadelphia office, listened to my story network, and I wanted in he reconnected National Security Conneil acted some sort of big shot in Allnet's That Allact had surreptitiously (and you Bennett Kolher, who is apparently

Unfortunately, he did not define the

spoke with Steve Edmonds, who also seemed sincerely distorted by my expeditions manner, I got nowhere. I then times to try to resolve the affair in an term "couple." t-had spoken with him a "couple" of

simution. I thought my fortunes would

My fortunes stayed the same.

and deduct the \$5 charge from my bill. company, okay, there's no way, okay, that would have rocall my local Bell ecopyany doo't represent Sprint, okay, or your get this matter resolved. But since I, okay, said something like this: "Yan sorry, okay, problem insuediately. After waiting arrange to be disconnected from Allact we can switch you back, okay, to Sprint." that it's taken us, nkay, so long, okay, to week, leaded again. And again, He linally job, he said, but he would rectify my [He really did talk that way.) In short, I shot named Bill Love, the was new on the Now I was mad. I spoke to a bigger big

fixed an one five-minute phone call. my local Bell company had the problem clowes over a month to tell me that they were indeed powerless to satisfy me, but this century: if I can help it. It took these to go out of its way to make me feel damin problems with a company that asserts that sure that I won't do business with them in am "a highly valued austomer" but seems There have got to be serious interna-

paging for free

be used without charge! in many areas the local valor paging system can but decide against it because of the cast? Well. Did you ever want a beeper or paging sorvice

system works. Many valoe paging systems work call when they want to reach him through his local or toll-free phase rumber that people should tones. Every subscriber is assigned a different tane depoder tuned to a unique sequence of audio same radio frequency but each and has an audio Mrz. All pagers on that system are funed to the radio frequency in the VHF hand around 150 by broadcasting all paging traffic on the same First, a brief description of how a voice paging

> verbal message. This is limited to a few seconds hears a tone which prompts him to start his pager. When that number is diabal, the caller message is then temperarily stored in an audio message which triggers the appropriate paging to ne sequence is broadcast just prior to the voice being routed to the paging transmitter. A unique atter which another tone outs him off. This voice same frequency. The pager times out after the tape butter or a digital memory subsystem before thest-sargifullicasage is overexended for him and not eyeryone else's on that popiver so the subscriber only hears messages

A couple of years ago while listening to the

(continued on page 21)

5 70	y POS RLS	L i COL KET		M B Cw	(Dugoing Intel) DA RÉR SYB OCT	VEY OVR SCN INW	(licket Box)
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100-B TSPS Console Layout

Abbreviations in upper and lower case are lamps only Abbreviations in lower case are non-illuminated keys Abbreviations in capital letters are illuminated keys

and the Legion of Doom by The Marauder

are primarily secral engineering applications. The aust wanting to know about the TSPS Console) more you know about operators and their jobs. standard AT&T 100-8 TSPS Console. Possible uses description, and use of the keys found on the for the information contained herein (besides lot In this article we will discuss the basic layout,

layout. While there may be additional or different the more you can get them to do things for you.... Above is the standard AT&T 100-8 console

MF (mutti-frequency) tones. When a 150 keys in software itself. Bouting information applied onto etc.) but as a multi-purpose look for entering exactly what it is. The TSPS Operator (T\$0) uses various numeric codes recognized by the TSPS laid out into what resembles a keypad, which is right hand corner you will notice the numbers 0-3 the trunks from the TSPS position is done using information (phone numbers, leward rautings this keypad for keying in not disty coulding resemble the above layout classly. In the lawer keys on the various consoles, they will generally

A HACKER'S GUIDE TO THE TSPS CONSULE

KP+Information digits until the \$T (start) key is spaced sequence. So if you were somehow able KP4 info digits+SF onto the trunk in a unifornity pressed, at which time it plays the buffered would not sound like someone placing a call on a to listen in on a 180 actually routing a call, it blue box), but more like someone pressing a standard touch have relegione (or home-made network in most cases is quite tolerant to the tones would be MF lands, not touch tones. redial key" on a touch-lone phone, except that signalling with our blue boxes) tolerance is what allows us to simulate in-band deviations of this standard. (This "loose" tones are a network-wide standard, although the The duration of the tone and space between the

is used for manually filled but trouble and/or fine New, Cancel, Scratch, and Completed. I believe this will see the ligher box. This box has 4 stats marked available. The TSO would manually fill out a equipment failure the tickets are presumably lickets are a thing of the past, however in case of tickets. As far as I know, manually filled time directly served by her particular TSPS position). out of her LAN (Local Area Network -- or the area whereas to report trauble with a number in her trouble ticket to report trouble reaching a number (utilizing the KP-TRSL (Trouble) key) to LAN she would simply key in a trouble code At the upper left hand side of the diagram you

certain keys on the carsole, and is used to automatically place a trouble report. display timing information (hours, numbers, display. The display works in conjunction with identification (what most people refer to as TSPS seconds), cost per migute, calling number meanings when resulting from certain procedures (dark). Both of these states have different either displaying digits or displaying nothing The console display can be in one of two states. ANI), rumbers called, and various special codes. illuminated (dark), illuminated, or ilashingattempted by a TSO. Lighted keys and lamps on different things under different conditions. Again, the state of a lamp/lamp-key moans the console can be in one of three states; not To the right of the Ticket box you will see this

Below the Ticket box you will see a row of 5

(Verify). These are various special purpose keys used by TSPS that have no real "grouping" unlike the other "key groups". These are:

conjunction with the keypad, it allows the TSO to verify (listen in) on a telephone call that is in (MFY)—Verify, illuminated key. Used in on that call is scrambled to the TSO, and despite progress, although any conversation taking place popular belief the scrambling process is done at conversation would not be scrambled. verification trunk from a non-TSPS position, the you were to somehow gain access to a the console level, and not on the truck level. It

overseas call completion through an Overseas also allows the 150 to key in more than 10 digits (OVA SES)—Overseas, illuminated key. Used in meaning to the customer if helpha is attempting causes the code to show an display, and it's up to only, 93-special falling). Depressing this key screening code (for example, 74-collect calls the TSO that an incoming call has an associated (SCN)—Screen, illuminated key. Lights to notify the TSO to decipher the code and explain its (standard POTS) for IDDD call completion. rall Completion Center/Server (IRCC), I believe if code. (For instance, prison phones have something torbidden by his associated screening

collect calls only). (INW)—Inward, illuminated key, Lights to notify aperators are actually TSPS operators with their key and saying, "Inward", In most cases inward Operator", therefore she answers by pressing the inward lamps lit. the TSO that the incoming call is "Operator to

screening code of 74, allowing them to place

and de-activates the console scrambling (for causes an audible "beep" to be applied to the line. interrupt a call in progress while a line key. Used in conjunction with the VEY key to roughly 30 seconds), allowing the TSO to talk to varification is being done. Pressing this key (EMR INT)—Emergency Interrupt, illuminated the parties being verified linterrupted. Use of this abuse/misuse will set off plants. via various security and maintenance TTY's. Any key and the VEY key, is constantly kept track of

see three groups of langs keys labeled "Mor-To the right of the above set of keys you will

(continued on page 15)

June, 1987

cellular phone calls. The more logical flimsy legal barrier to exceed topping on

Act (see the April column) provides a The passage of the Electronic Privacy

response to cavesdropping would be

More Telenet Addresses

alleged to engage in illegal cellular Company charged that its wireline the PCC, Metroplex Telephone interception, in a complaint filed with the new celiabr privacy laws is now

and said that its compautor has been machine picture of interception law "raught with its hands in the cookie jar SBMS "presents a totally confused and transmissions." Metroplex replied that mouthorized use of radio transmission step amplified on Aldding and soop, Conceunications Act (which prohibits contended that Section 705 of the received inoncommunicative and SBMS also termed the orthular signals provide the communications service regardless of the technology used to laws to protect communications priva available seaming equapment are not interesphen by the use of seadily. Congressional resument it argued to that "mansmissions that may be oval or enother's benefit." SBMS said and "has not used the information to protectible," even though in "obtain an estimate of its market sha Metruplex transmissions, but only to SBMS admitted that it monitored competitive benefit. In its response Metroplex network for its own ... monthly data transmissions of the competitor in Datas, Southwestern "deliberate commercial spying" by Mobile Systems (SBMS), engages in Predictions

encryption grad at both ends of the call scheme. However, one then has to buy

data stream through a DES enciption to digitalizing the color and passing the even understand inverted conversations,

and inventit—with training, one can investers (which take the voice signal wireline). These range from mere audio conversations (noth cellular and normal the marker that energy telephone encryption: There are many presincts on

Since the area of concern is the cellular

cellular market "just shy of \$1.5 billion year by chear, yielding a total 1989 revenues will amount to \$984 million a amounting to \$506 million. Usage reach \$10,000 by the end of the decade. in a news release. The report predicts in spite of acknowledged pitfalls as high that shipments of mabile phones will subscriber costs and some pixer subscribers from the 240,000 using the reception quality. The research time sold ophinistic scenario is disawn for Europe in the number of European cellular and Sullivan projects a statoid morease service at the end of 1985, "This A market research report by Frost

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· Violations

ready depend on the privacy of their. widespread, cellular phone users can't direction, but until this becomes

bits per second. Scanner users will only

data transmission at 300, 1200, and 24(0) digital energytton algorithm, offering

Security Agency, It uses a proprietary has been approved by the National cellular encryption. The cellular phone

Attacks others contact switch based Washington and Baltimore area, Bell Atlantic Mobile Systems. In the celiular company does this - Bell normal phone lines. So far, only one central switch before being passed to the and decryptabe call when it gets to their. phose companies should provide this, link, it seems obvious that the cellular

user, however, must buy the AT&T

1620E excryption device (\$2,550), which

this appreents a step in the right near a hissing if they aftempt to listen in

An outspoken corporate supporter of

(Continued on page 20)

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letters, po box 99

A Wistery

Dear 2600:

on ESS-5 it is busied out. that was, and/or how it worked? Now Could you explain just exactly what and listen to anything on that line short code that was shortly hacked out. dial 930. If I fused two lines together we could simply pick up the phone and crossbar in the 694 and 695 exchange. you could enter a phone number after a When we in Grand Blanc. MI had

rumoured to exist, but conclusive proof you've mentioned have long been about it. Numbers such as the one simply hasn't been presented ibe subject, we idhe most happy to been if anyone out there has knowledge on We don't know what it was you did, but Silicon Rat and the Mice

In Reply

Dear 2600:

complaints are: Our response to some of his and privacy reinforces this suspicion. distortions that I must question the reviewer's agenda. The reviewer's contains so many gross and untain III were valid. However, the review tey of the comments made about ATM ATM /// in the February issue of 2600. A Rippant attitude about our freedoms This letter is to reply to your review of

publication available to the general this info is not found in any other pages long. ABM III is one of a kindinfour 18 pages than many books 100+ concisely written and contains more national publications. It is very readable. ATM III is compactly and larger than the print used in many W is 75 percent of effic type, and is [1] the size of the print used in ATM

quality may exist, but to make a blanket NP, 155 copier. Some variations in (2) A IM III is reproduced on a Canon

June, 1987

publications when important new of copies so that we can appeare economically make a smaller number exaggeration! A copier allows us to badly xeroxed pages is a gross information arrives. tatement that ATM III consists of 18

night depository crimes, and one to traud, one to ATM networking, one to summarizes 31 news articles, Of nothing to do with ATM fraud. ATM III gross distortion made is the reviewer's these, 28 relate to ATM and debit does not contain "cartoons". Another PAC contributions. clippings provided in ATM III have assertion that most of the newspaper (3) AIM III has one "cartoon" and

seriousness of the work because they threat to average, law-abiding citizens. make it clear that A1Ms are a serious percent are not. They add to the grave. About 75 percent of the our freedoms and privacy as extremely regard the impact of EFT devices upon teining reading" to him, many people ståtement, "omineus risks to our "ravings" are favorable. About 25 specific into for future editions of A IM depth security analysis of ATMs. And freedoms and privacy" was "enterby way of feedback, it provides us more which, in itself, contains many, many three-page feedback questionnaire. anyone to systematically make an inpedback we receive regarding these NAM security insights. And it permits (5) While the reviewer felt that my (4) This review badly glosses over the

\$20. If anyone wants to produce his own, unique ATM publication at a lower price, he's certainly entitled to do (6) The current price of ATM III is

alraid to publish anything on ATMsgoes into our publications is contributed by readers. We are not (7) 90+ percent of the material that

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are what you make of them! contribute info to it. Our publications info. We are working on ATM NV. Please shocking. But only if we can obtain that no matter frow lengthy, detailed, or

President, Consumertronics Alamogordo, NM 88310 P.O. Drawer 537 John J. Williams

Military Madness

Dear 2600:

they feel 2600 is safe to read, so I don't confiscated by the military. Apparently mind the lack of an envelope. I do like the new format. I recently ordered a book that was

Computer. Host money on TAP Thanks for the info on TAP and

brew. Any suggestions? am fairly competent on computer a Z-80 and have started on a robot), but architecture (I built a home-brew using id like to build a modern for my homecan't find telecommunications stuff i'd like to see more hardware into.

pield quick results. And they're tree to Ads in the 2600 Marketplace usually subscribers.

More Publications

appreciated. (How about contacting unexpurgated version of his payphone Mark Tobias and printing an which you receive would be Magazine and no doubt many others Ace, Monitoring Times, Pay Phone and subscription/sample copy information for magazines like The local newsstand or library. Addresses but are usually unobtainable at my related to the info/telecom enthusiast, publications that seem interesting and print a list of recommended readings in a future issue. You often refer to As an avid info junkie, I suggest you

I look forward to your reply.

Best wishes from 216

Subscriptions are \$33 a year and their advertisements on payphones Magazine is in its third year now. They Brasslown, NC 28902, Payphone Grove Enterprises, PO Box 98, is \$15 a year and you can write to. ever encountered). Manitaring Times PO Box 46199, Baton Rouge, LA costs \$12 a year and their address is a great look at the exciting and arial lots of neat articles and subversive world of radio. The Ace 70895-46199 (first 10-digit zip we've The Ase and Monitoring Times provide

Additional Facts

good magazines put there.

TX 77242. Let us know about any other address is P.O. Box 42371, Houston,

Dear 2500:

might find useful: Security (page 21, April issue), here are What, and Where in Cohmunications few additional facts your readers Regarding the mini-review of Who.

shows), but the price for this available trade journals, or attending a glossary of communications terms, explaining commonly-used acronying, convenience was a hit steep—\$175. any of the comsec conventions or trade have learned by reading easily. it contained nothing that you couldn't security. It's nice to have all that various aspects of communications and some introductory articles about compitation of information from information in one place (even though security-related products, along with a manufacturers brochures about "selected bibliography", a section (1) The 1981 edition was mostly a

Voice and Data Communications NTIA-CR-80-9, "Users" [sic] Guide, Administration Contractor Report, # minor revision of a study first done tor Telecommunications and Information Uncle. If first appeared as a National (2) The above book was actually a

(continued on page 18)

June, 1987

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criginated fram. Hotel originated DOD calls. The TSPS also receives the room number the call is being otherwise direct-dialable call (in some rural grees caller requires TSPS assistance in placing an contribute each of the times groups. These are: condition of these lamps to identify the status of lights on direct-dialed coin cat's that are sent to that have limited DDD features). "Coin 1" Jamp with", "Coin I", and "Note!". The TSO utilizes the TSPS for payment collection. "Hotel" lights on (Six) "Non-coin" lamp lights when a non-com incoming calls. There are three lamps that are

the "non-com" group to light, etc.) residential phone would cause the "0+" lamp in payphone, this would cause the "01" [amp in the te-person (operator assisted) call from a (Example: if a customer were to place a "personnumber" for an operator assisted call in each of originated by a customer dialing a "0+ telephone 'coin" group to light, one placed from a the three groups (coin, non-coin, hatel/motel) (0) Lights to signify that the incerning call was

categories (non-com, coin, hotel/motel). simply dialong 0 (zero), in each of the three incoming call was originated by a customer (4)—aka "Dial Zero". Lights to signify that the

deposit the full charge at the completion of the the TSPS operator when a customer requests a shows up in the coin group only. His depressed by 'post gay'' call from a payphone, allowing him to (PST PAY)—Post Pay, illuminated key. This

switchhook during a call in pregress, requesting operator assistance. group only. I believe this lamp lights to inform the (Tre) - Tone, large. This shows up in the coin TSO that a coin customer has flashed his/her

noted originated calls. (**681**)—Guest; illuminated key. This lights on all

various outgoing trunk groups. The keys are used St Clove: left you will see a row of keys labled "Outpalle Franks". TSPS utilizes this group of keys to select Below the above rows of keys and to the fan

Used by TS0 to place calls to the directory assistance group. (DA)—Directory Assistance, illuminated key

(R&R)—Rate and Route, illuminated key, Usad

Tage II

June, 1987

calling another operator.) note: This has just been phased out. TSPS is found at KP+800+141+1212+ST. (Editor's Sate and Route position known to all you boxers to place calls to rate and route. The Universal operators can now get this information without

Depressed by the TSD to select an outgoing trurie although I have no evidence of this. this key is used to reach a cord-board position, (06T)—Outgoing Trunk, illuminated key (SWB) — Switchtsoard, illuminated key, I believe

group labeled "Ring". These keys are utilized by and line handling. TSPS to activate special purpose ring features special purpose calls (such as triward), etc. To the right of this row at keys you will find the

to be used to place operator assisted calls,

originating party loses his connection. helding the forward line in the event that the (RWD) — Ring Forward, illuminated Key, Exactly TSO to ring the originating party's line while EACK)—Ring Back, illuminated key, Used by the

positions I have spoken with don't either. don't understand its full potential and most available but a message is left anyway. I really to-person calls where the called party is not special operator call back situations on person-(CALL BAK)—Call Back, illuminated key, Used in he apposite of ring back.

don't pay we'll bill the called party..."). qustomer into making the proper deposit ("If you more frequent is needed at the completion of a TSC the coin station back and attempt to highten the assisted cein call. The usual procedure is to ring minute period (in being number of minutes entered (Chy Due) — Lamp. Lights to antorm the TSO that via the KP NFY key at the origination of the call) the TSPS to notify catter of expiration of initial n Toll Service) originated calls and lights to inform (My)—lamp. Used in Non-ACTS (Automatic Con-(TBC)—Time and Chargos, illuminated key

coin, cain-see above). If the calling party is conditions show up as a "0+" call (hotel, non-Identification) Failure's (ANNF) Both call caller or an incoming caller that was routed to by TSPS to determine the status of an incoming TSPS due to an "ANI (Automatic Number "Operator Number Identification" (DNI) marked (Key Cly) — Key Calling, Jacq. This lamp is used

(continued on next page)

TO TSPS

marked as "ON! fraguised" the appropriate "9+" lamp will light, and the "Key Calling" lamp will be lit steady. If the incoming call was due to as ANIF, the "9+" lamp will be lits and the "Key Calling" lamp will be lit and flashing.

Directly to the right of the "Ring" group of keys you will find the "Release" set of keys. These two illuminated keys above the TSO to selectively release (disconact from) either the calling, or called parties by pressing either the "Release Sack" (BAK), or "Release Forward" (PWD) key respectively.

To the right of the release set, you will see a group of four keys with no particular "group designation". These again are various multipurpose keys, that do the following:

(\$\mathbb{R}\$) — Service (assistance) Required, illuminated key. Presed by the TSO to forward the calling party to a supervisory console (i.e. irate ouslands demanding supervisor). It can also be used if the TSO is confused and needs assistance.

(MB)—Make Busy, illuminated key, Used to "busy out" the console, lights when pressed. The console without take any ancoming colls until it is pressed again. (This is useful when gabbing, doing traits, or filling out time thouste trickets.) (Mi)—Maintenance, Earry, This lamp illuminates to warm the TSO, that her console has been placed into remote maintenance/testing mode. A flashing MENC lamp indicates a faulty console. (PT)—Position Transfer the call in progress from her console (position) to another console.

Selow the "Outgoing Trunk" keygroup, you will see a tempinanced "Ow" — Call Waining. This templights on every active console to inform the TSO that there are knowning calls waiting.

To the farright of the "CW" tamp, you will find the AMA group of keys, broken into two subgroups, which are "Station" and "Parant". A complete description of each key in this group would require more form than is available here the "KP" and "AMA" I ming groups of keys (nee below), for attaching the appropriate class of charge to the call being originated. The keys in the "Station" sub-class from left to right are "Paid" (PA), which is used to attach a "Station".

can take on different meanings under different unavailable. Although all the keys in this group the sake of this article. All keys in this group are conditions, the above definitions are suitable for a person-to-person call where the called party is attach a "Person-to-Person" rate of charge. The those in the "Station-to-Station" group only they group of AMA keys. Their uses are identical to operator assistance in completing a call. Below you have trouble dialing a number and require procedures and "Direct Distance Dialing" (CDD) calls. "Auto Collect" (AT DT), used in coin billing and (Special Called") \$P (2) which are both used "Station" Collect Call, "Special Calling" (SP C6) charge; (Collect') (CL) to attach (Station-toto-Station" originaling caller paid class of attaches a 000 class of charge in cases where procedures, such as third party, or credit card in "Special" Station-to-Station billing No AMA" key is pressed to eliminate a charge for his now of keys you will find the "Person" sub-

Below the "Cw" famp you will line two keys under the heading "Coin 2". Their uses on "coin originated" (payphone) calls are: "Coin Collect" (DIL)—which causes the payphone to collect coins, and the "Coin Return" (RET), which causes it to return a coin. Soth are literaheated keys.

To the right of the "Coin 2" group, you will find the "AMA Timing" group. These keys are used in conjunction with the "AMA", and "KP" groups

(CA TM6)—Cancel Taning, siluminated key. Cancels AMA timing changes and also allows the Cancels AMA timing changes and also allows the TSO to change the class of change on a call. (ST TM6)—Start Timing, illuminated key. Used to start AMA timing after the appropriate class of change has been entered, and the calling party has reached the called party in personnals, when calls (or in station-to-station DDD calls, when calls (or in station-to-station DDD calls, when

the destination ring has been established).

(CA CAL) — Cancel Call, illuminated key, Used in conjunction with the Cancel Timing key to Carcel a call and mark a "non-completed" call on the AMA stapes (such as a person-to-person call where the called party is not available).

(REC MSB) — Record (AMA) Message, illuminated key. Used at the completion (meaning calling and called party are done

appropriate class of change onto the AMA tapes and to release their ferward connection.

To the right of the AMA timing group you will see three columns of, four butters under the heading of "topp Control". These allow the TSO to access any of the three loops available to her for placing calls. The keys have identical meaning in each set. They are used in the following manner: (DLB)—Calling Party, lamp, Lights to signify person on said loop is a calling party.

(OLD)—Called Party, learny. Lights to signify first person on Icop is a called party.

(#LD)—Hold, illuminated key. Places a top into a hold state: The calking and called party can tak to each other, and AMA timing can be started. The call is held at the console.

(ACS) — Access, illuminated key. Used by the TSO to initially access a loop. Pressing this key selects an outgoing loop, and reaches the consert for placing a call onto it. It is also used to atlew the TSO back into a loop or loops in a hold state.

To the right of the loop control group you will see the "Keppalse Key" group. These keys are presently the ISO to initialize the keypad parser into the proper mode for entering information, which is completed entered by pressing the ST key (to the right of keypad). Their uses are as follows:

(KP,TB)—KP Trable, illuminated key, Used to enter various 1S0-encountered trouble codes such as noisy line, customer(s) were cut off, couldn't complete call, etc. I believe the format for entering a trouble code is as follows: "KP TBL is the KP Trouble Key. TG is the 2 Digit trouble code, NTE + KP. To is the 2 Digit trouble code, NTE sithe rumber of times trouble was encountered (1 Digit). CM is the callors phone number, and ST is the start key. A record of the trouble is made on the AMA tapes and the calling party is usually given caedit.

(NP RT)—XP Sate, lithminated key, Used to enter and display rate (charge) information, Canaliso be used to display rate information at a custome request.

(KP H0)—KP Hotel, illuminated key. Used for manually entering a verbally requested from number on hotel impose originated casts.

(KP NY)—KP Notify, illuminated key, ilsed for

entesing time in minutes on a non-ACFS originated Coin call. When entered time direction is up, if causes the NFY tamp (see above) to flash.

(MP SP)—KP Special, illuminated key, Used for a cattering special numbers such as coolil card IO's and third party bitting numbers. It causes 1SPS software to automatically query the BW (Billing Validation) database to check the validity of the number or credit card and will flesh it bitting to an illegal card or number is attempted.

 (KP-8K)—KP-Back, iltromated key. Used in entering the calling number in ANI faitures (ANIF), and ONI (Operator Number Identification) required situations.

(WP FB)—KP Forward, illuminated key. This is the most commanly used KP key. It's used to enter the called party's number on all TSO-assisted calls. Prossing the ST (start) key causes the entered number to be applied onto the accessed trunks in MF lones.

(\$T)—Start, illuminated key (found to the right of the keypad). Used in complexing all KP+rumber sequences is led above.

Galow the "Coin 2" set of keys you will see the (POS RLS) — Position Release key. This key is used by the TSO to release her position from the call. She would hit POS RLS after completing a call, and also to release a person calling to ask her questions and not actually requesting that a call be placed (name/place requests, etc.)

Below the Position Release key you will see a set of Skeys labeled "Display Control". These keys are used to make the console display show assorted information. Their use is as follows: (tim) —Time, unhighted key. Displays Innovides in military format.

(eig min)—Charge per Minute, unlighted key. Displeys the charge per minute on a call in progress.

CLG NUM) — Calling Number, illuminated key Displays the number of the calling party.

(CLD NUM)—Called Number, illuminated key. Displays the number of the called party.

(SPL NUM) — Special Number, illuminated key.

Oisplays various special numbers such as Calling Cardinumbers and third party billed numbers. Use

(continued on page 20)

Washington, DC. companies within 75 miles or so of own. This is especially true of information so they can sell it on their these reports laterire-package the contract with Uncle to put together Many firms and individuals who

only \$35 per hour reasonably-priced detabases around time, and it's one of the most minute or two that will save you tons of services. You can do a search in a on several of the feading database catalog is also available as a database Government Printing office. This published. The complete catalog is the GPO Monthly Catalog, put out by the list of publications which they have departments of the government will information. Many agencies and happily send to anyone who asks for a Uncla is a wonderful source of

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Autovon Info

straight facts. amusing, but maybe it's time for a few with Autovorain your "letters" column. you have printed in the past have been The rumours and disinformation that There seems to be a passing fancy

character authorization code (these call; but you will need a special 8 calling the local Autovon switchboard change quarterly)." you can also place an off-net to off-net ("commercial") phononumbers. By plan for DoD installations worldwide addition to providing a uniform dialing armed services was operating. In eliminate the high cost of the Autovon allows off-net calls to other redundant networks that each of the conceived by DoD in the early sixties to The AUTOmated VDice Network was

From an Autovon-capable line you

succeeds in getting Emma's attention by a one second pause. This usually When you call another Autovon which is a 3 to 4 second ring followed switchboard using "Priority" or higher precedence you selected is not Autovon switch telling you that the precedence you hear a "Priority ring, normal ("Routine") Autovon line you'll one of these precedence keys on a keywords and brass balls. If you dial anything higher will require special select a higher precedence by prossing available on the line you're using get a recorded announcement from the don't object to giving you a "Priority" or number: 0 for "Priority". C for dialing the precedence before the wire") or the Autovan operator can with their endless jabboring, a "Immediate" trunk; but asking for the touch-tone pad. This is done by bound paper pushers clog the network But since all the Washington desk-"Flash Override". Autovon operators "Immediate", B for "Flash" and A for one of the keys in the fourth column of A very select low Autovon lines ("4may place "Routine" precedence calls. "Rousine" call frequently gets blocked. the distant switchboard.

handy desk reference for military and result in a compendium that would be a boration among your readers might the FTS translation, too, A collewould be more interesting if you added lecterat employees. franslations you've printed in the past The Autovon-10-commercia

Rusty Diode

and problems people have had with the some Autoven stories—experiences information in these pages. Let's hear It's always time for this kind of

Visions of Doom

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Deadline for July issue: 7/5/87

ports I would be very thankful. what is happening or list some local operator. If you or anyone could explain homes/businesses and the Metro codes that give carriers, call unknown added to the codes and maybe more the company and they regaing through upgraded to better software making it Metrophone part. They have just than that, lialso have found some weind Rumours are that prefixes will be serious changes that may affect us all have heard that U.S. Sprint has bought almost impossible to hack the system. with the Joual 818-350-1028 L.A., and have been having trouble

understand it better. free. service they provide to customer service what kind of "toll you wind up ringing. Simply ask provided to the people whose phone itself or a special "toll froc" service either an internal office at the company special numbers. In most cases, it's have "weird" codes that hook you op to almost all long distance companies stretch of the imagination. And finelly, guess. Metrophone is simply one of the authorization codes a little harder to mean the end of the world by any last to finally get around to it. It doesn't through a phase of making their every independent carrier has gone Union's Metrophone service, Second, and thus, changed their name to U.S. First of all, GTE Sprint bought U.S. Tell interested in acquiring Western Sprint. As for as we know, they're not Hex Converter

Words of Praise

Dear 2600:

see a "bio" piece done on him, similar to the one done recently on 74P. and was delighted by the poem about Captain Crunch, In fact, I would like to I received the March issue of 2600

magazine like 2600 because it allows Let me also say that I support a

Fag. 23

June, 1987

2692

any interessing data appear I will send mitters quickly became "Efectronic highly technical position, but should laws became strictur). I am not in a Babysitters" when the surveillance euphemism (just as infinity transthat is needed is a clever lega distributed in the United States-al one, then, if these devices begin to be scrambled by the end of next year (a since all the major services will be despite this it is buying man least in theory), it should surprise no descramblers to complete its set-up currently being manufactured there Our management knows this, and Caribbean and illegal decoders as heard has been breached in th Videocipher II hardware, which I hav Midnight affair. Our system use nothing to do with the Captai was purely money-oriented—it ha of money from subscribers' fees an the reason scrambling was initiate repugnant. The networks earn plenty for a large cable company, and can say expanding electronic networks. I work they will interact with the world's that the whole issue of scrambling is people to decide for themselves how

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